

AMENDMENTS TO CLAIMS:

Claims 1-31 are pending at the time of the Final Office Action.

Claims 1, 7, 9-12, 15, 17, 23, 25, and 29-30 are amended.

Claim 28 is canceled.

Claim 32 is added.

Claims 1-27 and 29-32 remain pending.

1. (Currently Amended) A method for correlating data from multispectral band images produced by different sensors, the method comprising:

spatially matching a plurality of multispectral band images produced by different sensors, the multispectral band images having different resolution levels;
performing at least one of a solar illumination correction and an atmospheric correction on the spatially matched images; and
spectrally correcting one or more of the spatially matched images based on one or more of the other images.

2. (Original) The method of Claim 1, wherein spatially matching includes equalizing resolution levels in the images.

3. (Original) The method of Claim 2 wherein spatially matching further includes:
setting a plurality of control points in the images based on landmark information; and
aligning the images based on the set control points.

4. (Previously Presented) The method of Claim 3, wherein setting the plurality of control points includes:

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- a. determining locations of a plurality of landmarks within a geographic area associated with the images;
- b. displaying one of the images;
- c. adjusting the displayed image to present a selected landmark;
- d. setting a control point associated with a visual feature that is approximately adjacent to the selected landmark; and
- e. repeating c-d until a threshold number of control points have been set; and

5. (Original) The method of Claim 3, wherein the landmark information includes schools.

6. (Original) The method of Claim 5, wherein the visual feature is one of a soccer field, a football field, a quarter mile track, or a baseball field.

7. (Currently Amended) The method of Claim 3, wherein spatially matching multispectral band images includes set each of the plurality of images ~~includes a plurality of multispectral bands set~~ to equalized resolution levels.

8. (Original) The method of Claim 7, wherein each of the multispectral bands are sampled at various first resolution levels and the set resolution level is the highest of the various first resolution levels.

9. (Currently Amended) A system for correlating data from two or more satellite images from different sensors, the system comprising:

~~a spatial comparator configured to~~ means for spatially matching a plurality of multispectral band satellite images produced by different sensors;

~~means for an image corrector configured to performing at least one of a solar illumination correction and an atmospheric correction on the spatially matched satellite images; and~~
~~a spectral corrector configured to~~ means for spectrally correcting one or more of the spatially matched satellite images based on one or more of the other satellite images.

10. (Currently Amended) The system of Claim 9, wherein the spatial comparator includes an ~~equalizer configured to equalize~~ means for equalizing resolution levels in the multispectral band satellite images.

11. (Currently Amended) The system of Claim 10, wherein the ~~spatial comparator~~ means for spatially matching further includes:

~~a positioner configured to set~~ means for setting a plurality of control points in the satellite images based on landmark information;
~~a first alignment compensator configured to align~~ means for aligning the images based on the set control points; and
~~a second alignment compensator configured to align~~ means for aligning the images based on the center latitude and center longitude of the base image.

12. (Currently Amended) The system of Claim 11, wherein the ~~positioner~~ means for setting includes:

~~a discriminator configured to determine the~~ means for determining locations of a plurality of landmarks within a geographic area common with the satellite images;
~~a display configured to~~ means for displaying one of the satellite images;
~~a landmark selector configured to receive selections of~~ means for selecting one or more of the plurality of landmarks;

~~an adjuster configured to adjust means for adjusting~~ the displayed satellite image to present the selected landmark based on the determined location; and
~~a receiver configured to receive selections of one or more means for selecting a~~ control points associated with ~~one or more~~ a visual features that is approximately adjacent to ~~a~~ the selected landmark.

13. (Original) The system of Claim 12, wherein the landmark includes schools.

14. (Original) The system of Claim 12, wherein the visual feature is one of a soccer field, a football field, a quarter mile track, or a baseball field.

15. (Currently Amended) The system of Claim 12, wherein each of the plurality of multispectral band satellite images includes a plurality of multispectral bands set to equalized resolution levels.

16. (Original) The system of Claim 15, wherein each of the multispectral bands are sampled at a plurality of first resolution levels and the set resolution level is the highest of the plurality of first resolution levels.

17. (Currently Amended) A system for correlating a plurality of satellite images from different sources, the system comprising:

a user interface device;

a display device;

a database for storing landmark information; and

a processor coupled to the user interface device, the display device, and the database,

the processor including:

~~a first component means~~ for instructing the display device to present one of the satellite images based on the stored landmark information;

~~a second component means~~ for setting control points in the satellite images based on a signal generated by the user interface;
~~a third component means~~ for aligning the images based on the set control points;
~~a fourth component means~~ for performing ~~at least one of~~ a solar illumination correction ~~and an atmospheric correction~~ on the aligned spatially matched images; and
~~a fifth component means~~ for spectrally correcting one or more of the aligned spatially matched images based on one or more of the other images.

18. (Original) The system of Claim 17, wherein the landmark includes school information.

19. (Original) The system of Claim 18, wherein school information includes location information.

20. (Original) The system of Claim 17, wherein the user interface includes a first component for selecting landmark information from the database.

21. (Original) The system of Claim 17, wherein the user interface includes a second component for selecting a control point on a visual feature in the displayed satellite image that is associated with the selected landmark.

22. (Original) The system of Claim 21, wherein the visual feature is one of a soccer field, a football field, a quarter mile track, or a baseball field.

23. (Currently Amended) The system of Claim 17, wherein the multispectral band satellite images include multispectral satellite images of different resolution levels, wherein the processor

further includes a means configured to set the multispectral band ~~each the plurality of~~ satellite images ~~includes a plurality of multispectral bands set to equalized resolution levels.~~

24. (Original) The system of Claim 23, wherein each of the multispectral bands are sampled at various first resolution levels and the set resolution level is the highest of the various first resolution levels.

25. (Currently Amended) A user interface for selecting control points on a plurality of multispectral band satellite images from different sources for alignment, the user interface comprising:

a first component for displaying one of the multispectral band satellite images, wherein the multispectral band satellite images are set to equalized resolution levels;

a second component for selecting a landmark from a database of landmarks located within a geographic area common to the plurality of multispectral band satellite images;

a third component for adjusting the displayed multispectral band satellite image to present the selected landmark; and

a fourth component for selecting a control point associated with a visual feature that is approximately adjacent to the selected landmark.

26. (Original) The user interface of Claim 25, wherein the landmark includes schools.

27. (Original) The user interface of Claim 25, wherein the visual feature is one of a soccer field, a football field, a quarter mile track, or a baseball field.

28. (Canceled).

29. (Currently Amended) The user interface of Claim 25-Claim 28, wherein each of the multispectral bands are sampled at a plurality of first resolution levels and the set resolution level is the highest of the plurality of first resolution levels.

30. (Currently Amended) A method for correlating data from multispectral band images produced by different sensors, the method comprising:

spatially matching a plurality of multispectral band images produced by different sensors;

setting a plurality of control points in the images based on landmark information;

~~performing at least one of a solar illumination correction and an atmospheric correction on the spatially matched images;~~ and

spectrally correcting one or more of the spatially matched images based on spectral information associated with one or more of the set control points in the images.

31. (Original) The method of Claim 30, wherein spectrally correcting includes:

extracting radiometrically stable data associated with the set control points;

aggregating the extracted radiometrically stable data from a first image from a first sensor having a resolution that is higher than a second image from a second sensor;

comparing the aggregated data of the first image to the extracted radiometric data of the second image;

generating a correction factor based on the comparison; and

applying the correction factor to all the radiometric data of the second image.

32. (New) The method of Claim 30, wherein spatially matching multispectral band images produced by different sensors include spatially matching multispectral band images of different resolution levels.